

Product datasheet for **RG204775**

CLTRN (NM_020665) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | CLTRN (NM_020665) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | CLTRN |
| Synonyms: | NX-17; NX17; TMEM27 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG204775 representing NM_020665 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGGGCTGCTCTTTTTCTGGTGACTGCCATTCATGCTGAACTCTGTCAACCAGGTGCAGAAAATG
CTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAAGCATATGCCTGGGATACCAATGAAGA
ATACCTCTTCAAAGCGATGGTAGCTTTCTCCATGAGAAAAGTTCCCAACAGAGAAGCAACAGAAATTTCC
CATGTCCTACTTTGCAATGTAACCCAGAGGGTATCATTCTGGTTTGTGGTTACAGACCCTTCAAAAAATC
ACACCCTTCTGCTGTTGAGGTGCAATCAGCCATAAGAATGAACAAGAACCGGATCAACAATGCCTTCTT
TCTAAATGACCAAACCTCTGGAATTTTTAAAAATCCCTTCCACACTGCACCACCCATGGACCCATCTGTG
CCCATCTGGATTATTATTTGGTGTGATATTTGCATCATCATAGTTGCAATTGCACTACTGATTTTAT
CAGGGATCTGGCAACGTAGAAGAAAGAACAAGAACCATCTGAAGTGGATGACGCTGAAGATAAGTGTGA
AAACATGATCACAATTGAAAATGGCATCCCCTCTGATCCCCTGGACATGAAGGGAGGGCATATTAATGAT
GCCTTCATGACAGAGGATGAGAGGCTCACCCCTCTC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204775 representing NM_020665
Red=Cloning site Green=Tags(s)

MLWLLFFLVTAIHAELCQPGAENAFKVRLSIRTALGDKAYAWDTNEEYLFKAMVAFSMRKVPNREATEIS
 HVLLCNVTQRVSVFVVTDPKSNHTLPAVEVQSAIRMNKNRINNAFFLNDQTLEFLKIPSTLAPPM DPSV
 PIWIIIFGVIFCIIIVAIALLILSGIWQRRRKNKEPSEVDDAEDKCNMIMIENGIPSDPLDMKGGHIND
 AFMTEDERLTPL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020665

ORF Size: 666 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_020665.6](#)

RefSeq Size: 1605 bp

RefSeq ORF: 669 bp

Locus ID: 57393

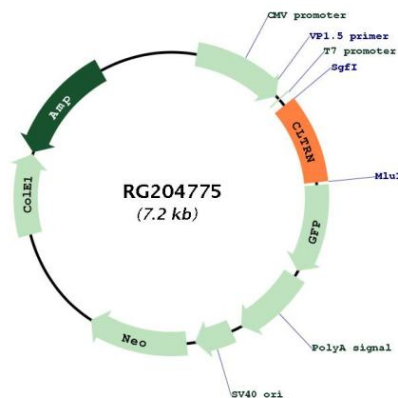
UniProt ID: [Q9HBJ8](#)

Cytogenetics: Xp22.2

Protein Families: Transmembrane

Gene Summary: This gene encodes a type 1 transmembrane protein that is important for trafficking amino acid transporters to the apical brush border of proximal tubules. The encoded protein binds to amino acid transporters and regulates their expression on the plasma membrane. It also plays a role in controlling insulin exocytosis by regulating formation of the SNARE (soluble N-ethylmaleimide-sensitive-factor attachment protein receptor) complex in pancreatic beta cells. The extracellular domain of the encoded protein may be cleaved and shed from the plasma membrane specifically in pancreatic beta cells. [provided by RefSeq, Jun 2013]

Product images:



Circular map for RG204775